# Toshiba mini NB305 Detailed Product Specification[1]

| Model Name: NB305-N310 | Part Number: PLL3FU-004004 | UPC: 883974372027 |
|---|---|---|

## Operating System C1 2
- Genuine Windows® XP Home (SP3)

## Processor[3] and Graphics[4]
- Intel® Atom™ processor N450 1.66GHz, 512KB L2 Cache
- Intel I® NM10 Express Chipset
- Intel® Graphics Media Accelerator 3150 with 0MB-384MB dynamically allocated shared graphics memory

## Memory[5]
- Configured with 1GB DDR2 667MHz (runs at 533MHz) (max 2GB)
- 1 main memory slot. Slot is occupied.

## Storage Drive[6]
- 160GB (5400 RPM) Serial ATA hard disk drive

## Display[7]
- 10.1" diagonal widescreen TruBrite® LED backlit display at 1366 x 768 native resolution (WXGA)
  - 720P resolution support
  - 16:9 aspect ratio

## Sound
- Built-in stereo speaker

## Input Devices
- 85 key US keyboard
- TouchPad™ pointing device with multi-touch gesture control

## Communications
- Webcam and microphone integrated
- 10/100 Ethernet
- Wi-Fi® Wireless networking (802.11b/g/n)[8]

## Expandability
- Memory Card Reader
  - Secure Digital, Secure Digital High Capacity, Multi Media Card [shared slot]

## Ports
- Video
  - RGB (monitor) output port
- Audio
  - Microphone input port
  - Headphone output port
- Data
  - 3 USB v2.0 ports (2 USB + 1 Left side port with USB Sleep and Charge[9])
  - RJ-45 LAN port
- Security
  - Slot for Security Lock

## Physical Description
- Fusion Finish: Black Onyx
- Dimensions (W x D x H ): 10.47" x 7.57" x 1.43" (6-cell battery)
- Weight: Starting at 2.60 lbs., depending upon configuration[10]

## Battery[11]
- 5800 mAh (63Wh) (6 cell) Lithium Ion battery pack
- Battery Life Rating (measured by MobileMark™ Productivity 2007)[12]
  - Included 6-cell battery: 11 hours, 5 minutes

## Power
- 30W (19V x 1.58A) Auto sensing ,100-240V/50-60Hz AC Adapter
  Dimensions (W x D x H): 3.66" x 1.57" x 1.1"
  Weight: starting at .44 lbs.

## Software C1 13
- Toshiba Software and Utilities
  - Electronic User's Guide
  - Bluetooth Stack for Windows by Toshiba
  - TOSHIBA Resources page
  - TOSHIBA ConfigFree®
  - TOSHIBA PC Health Monitor
  - Hard Disc Drive (HDD) Recovery
  - TOSHIBA Media Controller
  - TOSHIBA Bulletin Board™
  - TOSHIBA ReelTime™
- Third-party Software
  - Internet Explorer 8
  - Microsoft® Works 9
  - Microsoft® Windows Media Player
  - Microsoft® Office Live Essentials including Photo Gallery, Messenger, Mail and Writer.
  - Microsoft® Silverlight™
  - Adobe® Acrobat® Reader
  - Google™ Toolbar
  - WildTangent® Orb™ Game Console
- Trial Software
  - Norton Internet Security™ 2010, 30-day trial
  - Microsoft® Office Home and Student 2007 Edition, 60-day trial
- Special Offers
  - Toshiba Online Backup
  - Skype®
  - Intuit® Quickbooks® Financial Center

## Environmental Specifications
- This product is RoHS[14] compatible
- Energy Star Qualified
- EPEAT™ Gold Compliant

| | Operating | Non-operating |
|---|---|---|
| Temperature[15] | 5° to 35° C | -20° to 60° C |
| Relative Humidity (non-condensing) | 20% to 80% | 10% to 95% |
| Thermal Gradient | 15° C per hour (max) | 20° C per hour (max) |
| Altitude (relative to sea level) | 0 to 3,000 meters | 0 to 10,000 meters |
| Shock | 10G | 60G |
| Vibration | 0.5G | 1.0G |

## 1 YEAR STANDARD LIMITED WARRANTY for Mini Notebook Computers[16]
- Includes International Limited Warranty for obtaining service when traveling outside the United States.

**Service Upgrades and Extensions**
Toshiba offers many different enhanced services such as SystemGuard®, On-Site Repair, and ServiceExpress to provide additional support to your notebook PC. For a full description and complete list of programs and program terms and conditions, please visit www.pcsupport.toshiba.com.

## Accessories
For additional and most updated accessories, please visit www.accessories.toshiba.com

## Memory Upgrade

| Part Number | Description |
|---|---|
| PA3513U-1M2G | Toshiba DDR2 533MHz 2GB memory module |

## Power

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| Part Number | Description |
|---|---|
| PA3743U-1ACA | Toshiba 30W Global AC Adapter |
| PA3734U-1BRS | Toshiba Primary High Capacity Li Ion Battery Pack (6 cell), Silver |

## Expansion

| Part Number | Description |
|---|---|
| PA3761U-1DV2 | Toshiba USB Portable DVD SuperMulti Drive |
| PA3627U-1ETC | Toshiba USB 2.0 4-Port Hub |
| PA3575U-1PRP | Toshiba dynadock U Universal USB Docking Station (DVI &VGA) |

## Storage

| Part Number | Description |
|---|---|
| PA3556U-1M2G | Toshiba USB 2GB Flash Drive, ReadyBoost |
| PA3556U-1M4G | Toshiba USB 4GB Flash Drive, ReadyBoost |
| PA3556U-1M8G | Toshiba USB 8GB Flash Drive, ReadyBoost |
| HDDR320E04XW | Toshiba External USB Hard Drive, 320GB (White) |
| HDDR500E04XL | Toshiba External USB Hard Drive, 500GB (Blue) |
| HDDR640E04XR | Toshiba External USB Hard Drive, 640GB (Red) |

## Carrying Case

| Part Number | Description |
|---|---|
| PA1469U-1CMN | Toshiba Dual Function Hardshell Case |
| PA1473U-1NBK | Toshiba 10.1" Neoprene Sleeve, Black |
| PA1444U-1CS2 | Toshiba 12" Envoy Ballistic Polyester Carrying Case |

## Bluetooth

| Part Number | Description |
|---|---|
| PA3573U-1ETA | Toshiba Bluetooth Optical Tilt-Wheel Mouse, Black & Silver |
| PA3573U-1ETB | Toshiba Bluetooth Optical Tilt-Wheel Mouse, Black & Red |

## Input

| Part Number | Description |
|---|---|
| PA3765U-1ETR | Toshiba USB Optical Retractable Mini Mouse (Brown) |

## Subject to Change

While Toshiba has made every effort at the time of publication to ensure the accuracy of the information provided herein, product specifications, configurations, prices, system/component/options availability are all subject to change without notice. For the most up-to-date product information about your computer, or to stay current with the various computer software or hardware options, visit Toshiba's Web site at http://www.pcsupport.toshiba.com

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[C1] ***64-bit computing:***

64-bit computing requires that the following hardware and software requirements are met:

- 64-bit Operating System
- 64-bit CPU, Chipset and BIOS (Basic Input/Output System)
- 64-bit Device drivers
- 64-bit applications

Certain device drivers and/or applications may not be compatible with a 64-bit CPU and therefore may not function properly. See "Detailed Specs" for more information.

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[1] **Product Series Legal Footnote**. The product specifications and configuration information are designed for a product Series. Your particular model may not have all the features and specifications listed or illustrated. For more detailed information about the features and specifications on your particular model, please visit Toshiba's Web site at pcsupport.toshiba.com.

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[2] **Operating System**. Also see ***64-Bit Computing*** Legal Footnote, if applicable.

Certain Microsoft® software product(s) included with this computer may use technological measures for copy protection. IN SUCH EVENT, YOU WILL NOT BE ABLE TO USE THE PRODUCT IF YOU DO NOT FULLY COMPLY WITH THE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and Microsoft's privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the software product(s) or reconfigurations of the computer, and may be completed by Internet or telephone (toll charges may apply).

Some software may differ from its retail version (if available), and may not include user manuals or all program functionality.

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[3] **Processor (Central Processing Unit)**. Also see ***64-Bit Computing*** Legal Footnote, if applicable.

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CPU performance in your computer product may vary from specifications under the following conditions:

1. use of certain external peripheral products
2. use of battery power instead of AC power
3. use of certain multimedia, computer generated graphics or video applications
4. use of standard telephone lines or low speed network connections
5. use of complex modeling software, such as high end computer aided design applications
6. use of several applications or functionalities simultaneously
7. use of computer in areas with low air pressure (high altitude >1,000 meters or >3,280 feet above sea level)
8. use of computer at temperatures outside the range of 5°C to 30°C (41°F to 86° F) or >25°C (77°F) at high altitude (all temperature references are approximate and may vary depending on the specific computer model – please visit the Toshiba website at www.pcsupport.toshiba.com for details).

CPU performance may also vary from specifications due to design configuration.

Under some conditions, your computer product may automatically shut-down. This is a normal protective feature designed to reduce the risk of lost data or damage to the product when used outside recommended conditions. To avoid risk of lost data, always make back-up copies of data by periodically storing it on an external storage medium. Use your computer product only under recommended conditions. Read additional restrictions under "Environmental Conditions" in your product "Detailed Specs." Contact Toshiba Technical Service and Support for more information.

[4] **Graphics (Graphics Processing Unit)**.
GPU performance may vary depending on product model, design configuration, applications, power management settings and features utilized. GPU performance is only optimized when operating in AC power mode and may decrease considerably when operating in battery power mode.

***Total Available Graphics Memory*** is the total of, as applicable, Dedicated Video Memory, System Video Memory and Shared System Memory. Shared System Memory will vary depending on system memory size and other factors.

[5] **Memory (Main System)**. Part of the main system memory may be used by the graphics system for graphics performance and therefore reduce the amount of main system memory available for other computing activities. The amount of main system memory allocated to support graphics may vary depending on the graphics system, applications utilized, system memory size and other factors. Computers configured with a 32-bit operating system can address up to 3GB of system memory. Only computers configured with a 64-bit operating system can address 4 GB or more of system memory.

[6] **Storage Drive Capacity**. Computer (Internal) HDD Capacity. One Gigabyte (GB) means 109 = 1,000,000,000 bytes and One Terabyte (TB) means 1012 = 1,000,000,000,000 bytes using powers of 10. The computer operating system, however, reports storage capacity using powers of 2 for the definition of 1 GB = 230 = 1,073,741,824 bytes and 1TB = 240 = 1,099,511,627,776 bytes, and therefore shows less storage capacity. Available storage capacity will also be less if the computer includes one or more pre-installed operating systems, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary.

[7] **Display**. Small bright dots may appear on your screen display when you turn on your PC. Your display contains an extremely large number of thin-film transistors (TFT) and is manufactured using high-precision technology. Any small bright dots that may appear on your display are an intrinsic characteristic of the TFT manufacturing technology. Over a period of time, and depending on the usage of the computer, the brightness of the screen will deteriorate. This is also an intrinsic characteristic of the screen technology. When the computer is operated on battery power, the screen with dim and you may not be able to increase the brightness of the screen while on battery power.

[8] **Wireless**. Wireless connectivity and some features may require you to purchase additional software, external hardware or services. Availability of public wireless LAN access points may be limited. The transmission speed over the wireless LAN and the distance over which wireless LAN can reach may vary depending on surrounding electromagnetic environment, obstacles, access point design and configuration, and client design and software/hardware configurations. The actual transmission speed will be lower than the theoretical maximum speed. To use the Atheros SuperAG™ or SuperG™ wireless function, if available, your client and access point must support the corresponding feature. Performance of these functions may vary depending on the format of data transmitted.

[9] **USB Sleep & Charge.** The "USB Sleep & Charge function" may not work with certain external devices even if they are compliant with the USB specification. In those cases, turn the power of the computer ON to charge the device.

[10] **Weight**. Weight may vary depending on product configuration, vendor components, manufacturing variability and options selected.

[11] **Battery Life**. Battery life may vary considerably from specifications depending on product model, configuration, applications, power management settings and features utilized, as well as the natural performance variations produced by the design of individual components. Published battery life numbers are achieved on select models and configurations tested by Toshiba at the time of publication. See "Detailed Specs" for specific battery measurement test. Recharge time varies depending on usage. Battery may not charge while computer is consuming full power. After a period of time, the battery will lose its ability to perform at maximum capacity and will need to be replaced. This is normal for all batteries. To purchase a new battery pack, see the accessories information that shipped with your computer or visit the Toshiba web site at www.accessories.toshiba.com.

[12] **Battery Life - MobileMark™**. Measured by MobileMark. MobileMark is a trademark of the Business Applications Performance Corporation.

[13] **Software**. Also see 64-Bit Computing Legal Footnote, if applicable.

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Microsoft® Office 2007 60-Day Trial Version
This trial software will work for 60 days after you first use it. You will not be able to use the software if you do not activate it as described the first time you use the software. You can activate the software by Internet. Internet service charges may apply. If you want to keep the software after the 60-day trial period, you must convert to the perpetual version. You can convert online by following the conversion instructions presented during setup and paying the required fees.

[14] **RoHS.** This notebook is compatible with European Union Directive 2002/95/EC, Restriction of the use of certain Hazardous Substances in electrical and electronic equipment (RoHS), which restricts use of lead, cadmium, mercury, hexavalent chromium, PBB, and PBDE. Toshiba requires its notebook component suppliers to meet RoHS requirements and verifies its suppliers' commitment to meeting RoHS requirements by conducting component sampling inspections during the product design approval process.

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[15] **Temperature (Environmental) Conditions**. All temperature references are approximate and the performance of your computer may vary from specifications even when operating within the recommended temperature range.

[16] **Warranty.** The terms and conditions of Toshiba's standard limited warranty are available at www.warranty.toshiba.com.

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